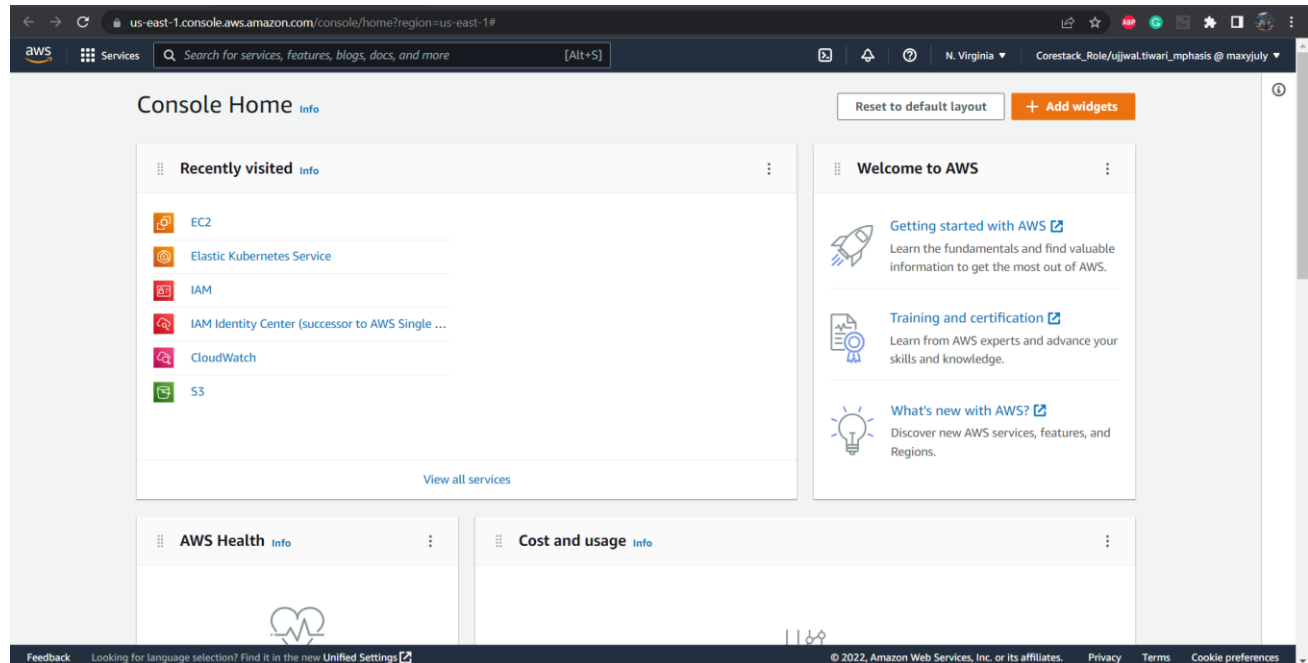


ScreenShot

First we need to create an EC2- instance.



us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

aws Services Search for services, features, blogs, docs, and more [Alt+S]

N. Virginia Corestack_Role/ujjwal.tiwari_mphasis @ maxyjuly

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

DemoElk

Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

5

aws

Mac

ubuntu

Microsoft

Red Hat

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-026b57f3c385c2eec

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

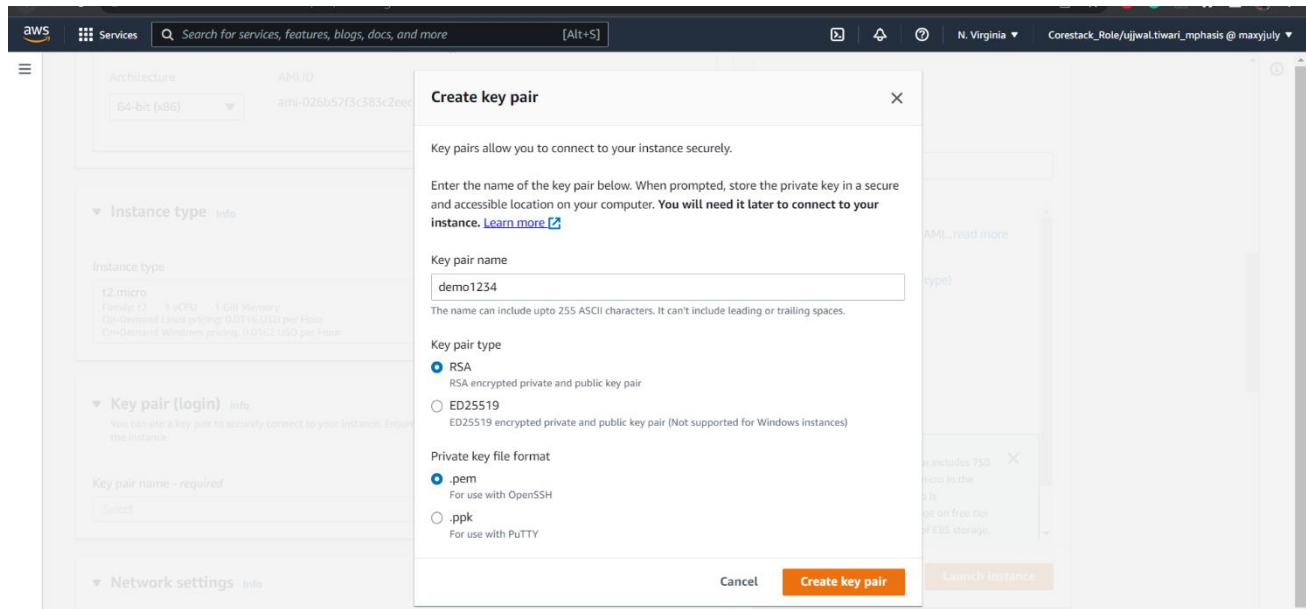
Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage.

Cancel

Launch instance



us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

aws

Services

Search for services, features, blogs, docs, and more

[Alt+S]

N. Virginia

Corestack_Role/ujjwal.tiwari_mphasis @ maxyjuly

Network [Info](#)

vpc-0466c645d5b57b328

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

☒ Allow SSH traffic from

Helps you connect to your instance

Anywhere
0.0.0.0/0

☐ Allow HTTPs traffic from the internet

To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)

ami-026b57f3c383c2eec

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the

Cancel

Launch instance

← → ↻

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

aws

Services

Search for services, features, blogs, docs, and more

[Alt+S]

N. Virginia

Corestack_Role/ujjwal.tiwari_mphasis @ maxyJuly

New EC2 Experience

Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

▼ Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Scheduled Instances

Capacity Reservations

▼ Images

AMIs New

AMI Catalog

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Connect

Instance state

Actions

Launch instances

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
<input checked="" type="checkbox"/>	DemoElk	i-03cddbc97942a0a93	Running	t2.micro	Initializing	No alarms	us-east-1d	ec2-3-86-230-

Instance: i-03cddbc97942a0a93 (DemoElk)

Details

Security

Networking

Storage

Status checks

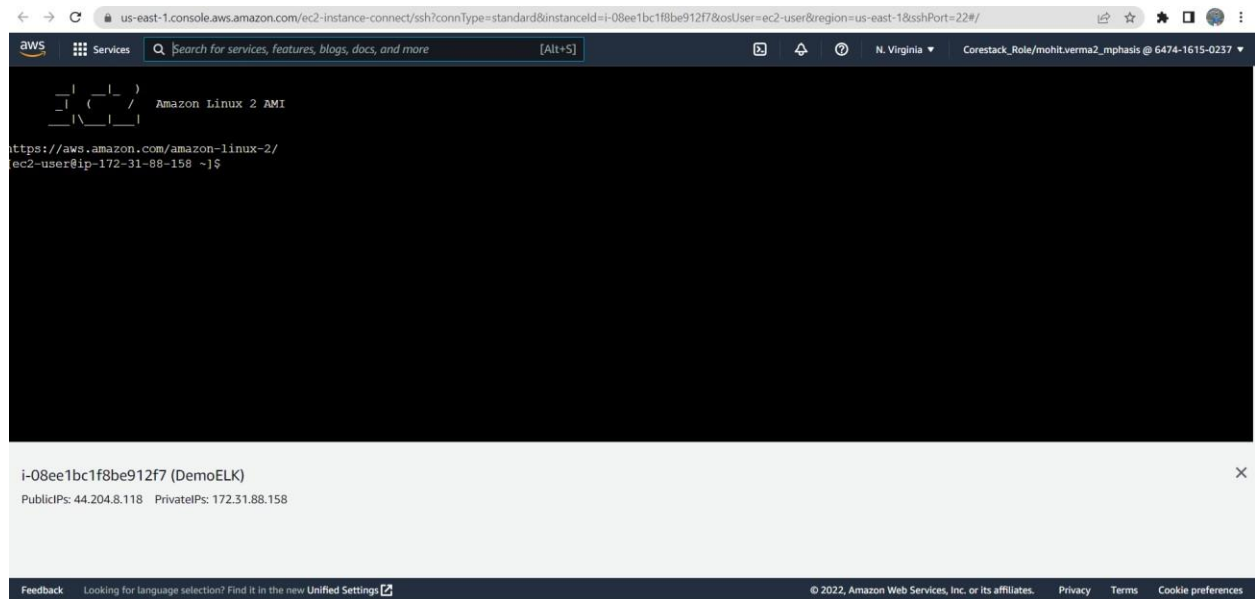
Monitoring

Tags

▼ Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-03cddbc97942a0a93 (DemoElk)	3.86.230.39 open address	172.31.88.158
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-3-86-230-39.compute-1.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	
IP name: ip-172-31-80-171.ec2.internal	ip-172-31-80-171.ec2.internal	
Answer private resource DNS name	Instance type	Elastic IP addresses

Now connect to the instance using putty



Now follow the following step


Step1: Install java and its Dependencies

```
ec2-user@ip-172-31-92-140:~  
Using username "ec2-user".  
Authenticating with public key "keyELk"  
  
      _|_      _|_      )  
      _|_      ( _|_      /   Amazon Linux 2 AMI  
      __|_ \__|_ |__|_      |  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-92-140 ~]$ java -version  
-bash: java: command not found  
[ec2-user@ip-172-31-92-140 ~]$ sudo yum -y install java-1.8.0-openjdk  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
amzn2-core                               | 3.7 kB      00:00  
Resolving Dependencies  
--> Running transaction check  
---> Package java-1.8.0-openjdk.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 will be installed  
--> Processing Dependency: java-1.8.0-openjdk-headless(x86-64) = 1:1.8.0.342.b07-1.amzn2.0.1 for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: xorg-x11-fonts-Type1 for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libjvm.so(SUNWprivate_1.1) (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libjava.so(SUNWprivate_1.1) (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libasound.so.2(ALSA_0.9.0rc4) (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libasound.so.2(ALSA_0.9) (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libXcomposite(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: gtk2(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: fontconfig(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libjvm.so() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libjava.so() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libgif.so.4() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libasound.so.2() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64  
--> Processing Dependency: libXtst.so.6() (64bit) for package: 1:java-1.8.0-openjdk-1.8.0.342.b07-1.amzn2.0.1.x86_64
```

```
libxshmfence.x86_64 0:1.2-1.amzn2.0.2
libxslt.x86_64 0:1.1.28-6.amzn2
lksctp-tools.x86_64 0:1.0.17-2.amzn2.0.2
log4j-cve-2021-44228-hotpatch.noarch 0:1.3-7.amzn2
mesa-libEGL.x86_64 0:18.3.4-5.amzn2.0.1
mesa-libGL.x86_64 0:18.3.4-5.amzn2.0.1
mesa-libgbm.x86_64 0:18.3.4-5.amzn2.0.1
mesa-libglapi.x86_64 0:18.3.4-5.amzn2.0.1
pango.x86_64 0:1.42.4-4.amzn2
pcsc-lite-libs.x86_64 0:1.8.8-7.amzn2
pixman.x86_64 0:0.34.0-1.amzn2.0.2
python-javapackages.noarch 0:3.4.1-11.amzn2
python-lxml.x86_64 0:3.2.1-4.amzn2.0.3
ttmkfdir.x86_64 0:3.0.9-42.amzn2.0.2
tzdata-java.noarch 0:2022c-1.amzn2
xorg-x11-font-utils.x86_64 1:7.5-21.amzn2
xorg-x11-fonts-Type1.noarch 0:7.5-9.amzn2
```

Complete!

[ec2-user@ip-172-31-92-140 ~]\$

 ec2-user@ip-172-31-92-140:~

```
[ec2-user@ip-172-31-92-140 ~]$ java -version
openjdk version "1.8.0_342"
OpenJDK Runtime Environment (build 1.8.0_342-b07)
OpenJDK 64-Bit Server VM (build 25.342-b07, mixed mode)
[ec2-user@ip-172-31-92-140 ~]$
```

Step2: Install Elastic search on AWS Server


```

root@ip-172-31-92-140:~
[ec2-user@ip-172-31-92-140 ~]$ sudo su
[root@ip-172-31-92-140 ec2-user]# yum install -y
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Error: Need to pass a list of pkgs to install
Mini usage:

install PACKAGE...

Install a package or packages on your system

aliases: install-n, install-na, install-nevra
[root@ip-172-31-92-140 ec2-user]# cd /root
[root@ip-172-31-92-140 ~]# wget https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.7.2.noarch.rpm
--2022-10-09 13:39:01-- https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.7.2.noarch.rpm
Resolving download.elastic.co (download.elastic.co)... 34.120.127.130, 2600:1901:0:1d7::
Connecting to download.elastic.co (download.elastic.co)[34.120.127.130]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 27304727 (26M) [binary/octet-stream]
Saving to: 'elasticsearch-1.7.2.noarch.rpm'

100%[=====>] 27,304,727  31.8MB/s   in 0.8s

2022-10-09 13:39:03 (31.8 MB/s) - 'elasticsearch-1.7.2.noarch.rpm' saved [27304727/27304727]

[root@ip-172-31-92-140 ~]# yum install elasticsearch-1.7.2.noarch.rpm -y
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Examining elasticsearch-1.7.2.noarch.rpm: elasticsearch-1.7.2-1.noarch
Marking elasticsearch-1.7.2.noarch.rpm to be installed
Resolving Dependencies
--> Running transaction check
---> Package elasticsearch.noarch 0:1.7.2-1 will be installed
--> Finished Dependency Resolution

amzn2-core/2/x86_64 | 3.7 kB    00:00

Dependencies Resolved

=====
Package           Arch      Version      Repository      Size
=====
Installing:
elasticsearch      noarch    1.7.2-1      /elasticsearch-1.7.2.noarch 30 M

Transaction Summary
=====
Install 1 Package

```

root@ip-172-31-92-140:~

2022-10-09 13:39:03 (31.8 MB/s) - 'elasticsearch-1.7.2.noarch.rpm' saved [27304727/27304727]

```
[root@ip-172-31-92-140 ~]# yum install elasticsearch-1.7.2.noarch.rpm -y
```

Loaded plugins: extras_suggestions, langpacks, priorities, update-motd

Examining elasticsearch-1.7.2.noarch.rpm: elasticsearch-1.7.2-1.noarch

Marking elasticsearch-1.7.2.noarch.rpm to be installed

Resolving Dependencies

--> Running transaction check

---> Package elasticsearch.noarch 0:1.7.2-1 will be installed

--> Finished Dependency Resolution

amzn2-core/2/x86_64 | 3.7 kB 00:00

Dependencies Resolved

Package	Arch	Version	Repository	Size
Installing:				
elasticsearch	noarch	1.7.2-1	/elasticsearch-1.7.2.noarch	30 M

Transaction Summary

Install 1 Package

Total size: 30 M

Installed size: 30 M

Downloading packages:

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Creating elasticsearch group... OK

Creating elasticsearch user... OK

Installing : elasticsearch-1.7.2-1.noarch 1/1

NOT starting on installation, please execute the following statements to configure elasticsearch service to start automatically using systemd

sudo systemctl daemon-reload

sudo systemctl enable elasticsearch.service

You can start elasticsearch service by executing

sudo systemctl start elasticsearch.service

Verifying : elasticsearch-1.7.2-1.noarch 1/1

Installed:

elasticsearch.noarch 0:1.7.2-1

Complete!

```
[root@ip-172-31-92-140 ~]# rm -f elasticsearch-1.7.2.noarch.rpm
```

Step3: Start the Server

```
root@ip-172-31-92-140:~  
[root@ip-172-31-92-140 ~]# service elasticsearch start  
Starting elasticsearch (via systemctl): [ OK ]  
[root@ip-172-31-92-140 ~]#
```

Step4: Automatically Boot u on start

```
root@ip-172-31-92-140:~  
[root@ip-172-31-92-140 ~]# service elasticsearch start  
Starting elasticsearch (via systemctl): [ OK ]  
[root@ip-172-31-92-140 ~]#  
[root@ip-172-31-92-140 ~]# sudo chkconfig --add elasticsearch  
[root@ip-172-31-92-140 ~]#
```

Step5:Configuring AWS IP so you can access using public IP

```
root@ip-172-31-92-140:~  
[root@ip-172-31-92-140 ~]# service elasticsearch start  
Starting elasticsearch (via systemctl): [ OK ]  
[root@ip-172-31-92-140 ~]#  
[root@ip-172-31-92-140 ~]# sudo chkconfig --add elasticsearch  
[root@ip-172-31-92-140 ~]#  
[root@ip-172-31-92-140 ~]# echo "network.host: 0.0.0.0" >> /etc/elasticsearch/elasticsearch.yml  
[root@ip-172-31-92-140 ~]#
```

Checking Elastic Search

```
EC2 Management Console x 3.82.104.206:9200 x +
Not secure | 3.82.104.206:9200

{
  "status" : 200,
  "name" : "Uatu",
  "cluster_name" : "elasticsearch",
  "version" : {
    "number" : "1.7.2",
    "build_hash" : "e43676b1385b8125d647f593f7202acbd816e8ec",
    "build_timestamp" : "2015-09-14T09:49:53Z",
    "build_snapshot" : false,
    "lucene_version" : "4.10.4"
  },
  "tagline" : "You Know, for Search"
}
```

Step6:Install Plugins

```
root@ip-172-31-92-140:/usr/share/elasticsearch
[root@ip-172-31-92-140 ~]# service elasticsearch start
Starting elasticsearch (via systemctl): [ OK ]
[root@ip-172-31-92-140 ~]#
[root@ip-172-31-92-140 ~]# sudo chkconfig --add elasticsearch
[root@ip-172-31-92-140 ~]#
[root@ip-172-31-92-140 ~]# echo "network.host: 0.0.0.0" >> /etc/elasticsearch/el
asticsearch.yml
[root@ip-172-31-92-140 ~]# cd /usr/share/elasticsearch/
[root@ip-172-31-92-140 elasticsearch]# ./bin/plugin -install mobz/elasticsearch-head
-> Installing mobz/elasticsearch-head...
Trying https://github.com/mobz/elasticsearch-head/archive/master.zip...
Downloading .....
Installed mobz/elasticsearch-head into /usr/share/elasticsearch/plugins/head
[root@ip-172-31-92-140 elasticsearch]# ./bin/plugin -install lukas-vlcek/bigdesk
-> Installing lukas-vlcek/bigdesk...
Trying https://github.com/lukas-vlcek/bigdesk/archive/master.zip...
Downloading .....
.....DONE
Installed lukas-vlcek/bigdesk into /usr/share/elasticsearch/plugins/bigdesk
Identified as a _site plugin, moving to _site structure ...
[root@ip-172-31-92-140 elasticsearch]# ./bin/plugin install elasticsearch/elasticsearch-cloud-aws/2.7.1
-> Installing elasticsearch/elasticsearch-cloud-aws/2.7.1...
Trying http://download.elasticsearch.org/elasticsearch/elasticsearch-cloud-aws/elasticsearch-cloud-aws-2.7.1.zip...
Downloading DONE
failed to extract plugin [/usr/share/elasticsearch/plugins/cloud-aws.zip]: ZipException[zip file is empty]
[root@ip-172-31-92-140 elasticsearch]# ./bin/plugin --install lmenezes/elasticsearch-kopf/1.5.7
-> Installing lmenezes/elasticsearch-kopf/1.5.7...
Trying http://download.elasticsearch.org/lmenezes/elasticsearch-kopf/elasticsearch-kopf-1.5.7.zip...
Downloading DONE
failed to extract plugin [/usr/share/elasticsearch/plugins/kopf.zip]: ZipException[zip file is empty]
[root@ip-172-31-92-140 elasticsearch]# █
```

Step 7:Install Kibana

```

root@ip-172-31-92-140:~/kibana-4.1.2-linux-x64
[root@ip-172-31-92-140 elasticsearch]# sudo su
[root@ip-172-31-92-140 elasticsearch]# yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amazon2-core
No packages marked for update
[root@ip-172-31-92-140 elasticsearch]# cd /root
[root@ip-172-31-92-140 ~]# wget https://download.elastic.co/kibana/kibana/kibana-4.1.2-linux-x64.tar.gz
--2022-10-09 14:17:18-- https://download.elastic.co/kibana/kibana/kibana-4.1.2-linux-x64.tar.gz
Resolving download.elastic.co (download.elastic.co)... 34.120.127.130, 2600:1901:0:1d7::
Connecting to download.elastic.co (download.elastic.co)|34.120.127.130|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11787239 (11M) [binary/octet-stream]
Saving to: 'kibana-4.1.2-linux-x64.tar.gz'

100%[=====>] 11,787,239  9.50MB/s  in 1.2s

2022-10-09 14:17:19 (9.50 MB/s) - 'kibana-4.1.2-linux-x64.tar.gz' saved [11787239/11787239]

[root@ip-172-31-92-140 ~]# tar xzf kibana-4.1.2-linux-x64.tar.gz
[root@ip-172-31-92-140 ~]# rm -f kibana-4.1.2-linux-x64.tar.gz
[root@ip-172-31-92-140 ~]# cd kibana-4.1.2-linux-x64
[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]# nano config/kibana.yml
[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]#

```

```

[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]# nohup ./bin/kibana &
[1] 1949
[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]# nohup: ignoring input and appending output to 'nohup.out'

[root@ip-172-31-92-140 kibana-4.1.2-linux-x64]#

```

The screenshot shows the Elasticsearch Kibana web interface. The browser tab is 'elasticsearch-head'. The address bar shows 'http://3.82.104.206:9200/_plugin/head/'. The page title is 'Elasticsearch'. The status bar shows 'cluster health: green (0 of 0)'. The main content area shows 'Cluster Overview' with buttons for 'Sort Cluster', 'Sort Indices', 'View Aliases', and 'Index Filter'. A sidebar on the left shows a star icon and the name 'Uatu' with 'Info' and 'Actions' buttons.

EC2 Management Console x Bigdesk x +

Not secure | 3.82.104.206:9200/_plugin/bigdesk/#nodes

ES node REST endpoint Refresh every Keep history Disconnect

[nodes](#) [cluster](#)

Cluster: elasticsearch

Number of nodes: 1

Status: **green**

EC2 Management Console x Bigdesk x +

Not secure | 3.82.104.206:9200/_plugin/bigdesk/#nodes/I3KMFR7ITRWX6lpCsLfNsw

ES node REST endpoint Refresh every Keep history Disconnect

[nodes](#) [cluster](#)

Cluster: elasticsearch

Number of nodes: 1

Status: **green**

Selected node:

Name: Uatu
ID: I3KMFR7ITRWX6lpCsLfNsw
Hostname: ip-172-31-92-140.ec2.internal
Elasticsearch version: 1.7.2

JVM

VM name: OpenJDK 64-Bit Server VM Uptime: 43m
VM vendor: Red Hat, Inc. Java version: 1.8.0_342
VM version: 25.342-b07 PID: 13373

Heap Mem

Committed: 247.6mb
Used: 51.6mb

Non-Heap Mem

Committed: 42.5mb
Used: 41.8mb

Threads

Peak: 26
Count: 26

GC (Δ)

Total time (O/Y): 37ms / 93ms
Total count (O/Y): 1 / 2

Thread Pools

Search

Index

Bulk

Refresh

Activate Windows
Go to Settings to activate Windows

